

ABSTRACT OF THE DISCLOSURE

An industrial vehicle includes a transmission, which is coupled to an engine by a torque converter. When the vehicle is accelerating, the rotational acceleration of driving wheels is computed based on the rotational speed of the driving wheels. A traction control procedure is executed based on the rotational acceleration for eliminating spinning of the driving wheels. When the vehicle is decelerating, the rotational deceleration of the driving wheels is computed based on the rotational speed of the driving wheels. An anti-lock brake control procedure is executed based on the rotational deceleration for preventing the driving wheels from locking. As a result, skidding of the driving wheels is reliably prevented by a simple structure.